

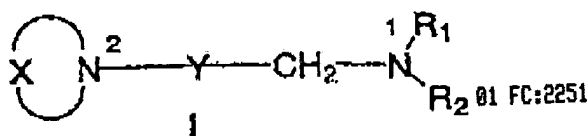
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 USSN: 10/057,846

AMENDMENTS

In the Claims:

1. (Currently Amended): A pharmaceutical composition, wherein the composition comprises one or more ~~cellular invasion or angiogenesis inhibiting~~ compounds of formula I or II or pharmaceutically acceptable salts thereof, and a pharmaceutically acceptable carrier, wherein formula I is:

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60.00 OP

wherein:

X is a saturated, or unsaturated linear, or branched alkyl chain of between eleven and thirty carbons optionally substituted with one or more substituents selected from the group consisting of: oxo, thiocarbonyl, oxime, -OH, -OR, -O₂CR, -SH, -SR, -SOCR, -NH₂, -NHR, -NR₂, ~~[[-NR₃⁺]]~~ -NHCOR, -I, -Br, -Cl, -F, -CN, -CO₂H, -CO₂R, -CHO, -COR, -CONH₂, -CONHR, NRCOR, -CONR₂, -COSR, -NO₂, -OSO₃H, -SO₃H, -SOR and -SO₂R; wherein one or more CH₂ groups if present in the alkyl chain, is optionally replaced by a moiety selected from the group consisting of: O, S, and NH; and wherein one or more C and CH groups if present in the alkyl chain, is optionally replaced with NH;

R₁ and R₂ are independently selected from the group consisting of: hydrogen; methyl; a linear, branched, or cyclic saturated, or unsaturated alkyl group containing one to ten carbons optionally substituted with one or more substituents selected from the group consisting of: -OH, -OR, =O, =S, =N-OH, -O₂CR, -SH, -SR, -SOCR, -NH₂, -NHR, -NR₂, ~~[[-NR₃⁺]]~~ -NHCOR, -I, -Br, -Cl, -F, -CN, -CO₂H, -CO₂R, -CHO, -COR,

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-CONH₂, -CONHR, NRCOR, -CONR₂, -COSH, -COSR, -CSOR, NO₂, -OSO₃H, -SO₃H, -SOR and -SO₂R; and benzyl, wherein a phenyl ring of the benzyl is optionally substituted with one or more substituents selected from the group consisting of: R, -OH, -OR, -O₂CR, -SH, -SR, -SOCR, -NH₂, -NHR, -NHR₂, -NHCOR, -I, -Br, -Cl, -F, -CN, -CO₂H, -CO₂R, -CHO, -COR, -CONH₂, -CONHR, -CONR₂, -COSH, -COSR, -NO₂, -SO₃H and -SO₂R; providing neither of R₁ and R₂ is an acyl or thioacyl residue forming an amide with N¹ and provided however if X is a saturated alkyl chain of 12 carbons, Y is a saturated alkyl chain of 2 carbons, X is unsubstituted or substituted with =O and both R₁ and R₂ are the same, then R₁ and R₂ may be selected from the group limited to hydrogen; a linear, branched, or cyclic saturated, or unsaturated alkyl group containing two to ten carbons optionally substituted with one or more substituents selected from the group consisting of: -OH, -OR, =O, =S, =N-OH, -O₂CR, -SH, -SR, -SOCR, -NH₂, -NHR, -NR₂, -NHCOR, -I, -Br, -Cl, -F, -CN, -CO₂H, -CO₂R, -CHO, -COR, -CONH₂, -CONHR, NRCOR, -CONR₂, -COSH, -COSR, -CSOR, NO₂, -OSO₃H, -SO₃H, -SOR and -SO₂R; and benzyl, wherein a phenyl ring of the benzyl is optionally substituted with one or more substituents selected from the group consisting of: R, -OH, -OR, -O₂CR, -SH, -SR, -SOCR, -NH₂, -NHR, -NHR₂, -NHCOR, -I, -Br, -Cl, -F, -CN, -CO₂H, -CO₂R, -CHO, -COR, -CONH₂, -CONHR, -CONR₂, -COSH, -COSR, -NO₂, -SO₃H and -SO₂R; providing neither of R₁ and R₂ is an acyl or thioacyl residue forming an amide with N¹;

Y is a linear, branched, or cyclic, saturated, or unsaturated alkyl chain containing one to ten carbons optionally substituted with one or more substituents selected from the group consisting of: epoxide, -OH, -OR, =O, =S, =N-OH, -O₂CR, -SH, SR, -I, -Br, -Cl, -F, -CN, -CO₂R, -CHO, -COR, -CONH₂, -CONHR, NRCOR, -CONR₂, NO₂, -SOR and -SO₂R; wherein one or more CH₂ groups if present in the alkyl chain, is optionally replaced by O or S;

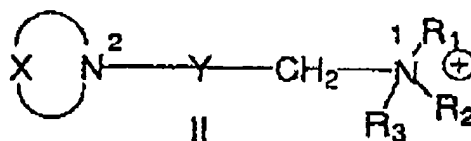
R is a linear, branched, or cyclic one to ten carbon saturated, or unsaturated alkyl group optionally substituted with one or more substituents selected from the group consisting of: epoxide, -OH, -OR', =O, =S, =N-OH, -O₂CR', -SH, -SR', -SOCR', -OSO₃H, -NH₂, -NHR', -NHR'₂, [[-NR₃⁺]] -NHCOR', NR'COR', -I, -Br, -Cl, -F, -CN,

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-CO₂H, -CO₂R', -CHO, -COR', CONH₂, -CONHR', -CONR'₂, -COSH, -COSR', -NO₂,
 -SO₃H, -SOR' and -SO₂R'; wherein R' is a linear, branched, or cyclic one to ten carbon,
 saturated, or unsaturated alkyl group optionally substituted with -NH₂;

and wherein formula II is:



wherein:

X is a saturated, or unsaturated linear, or branched alkyl chain of between eleven and thirty carbons optionally substituted with one or more substituents selected from the group consisting of: oxo, thiocarbonyl, oxime, -OH, -OR, -O₂CR, -SH, -SR, -SOCR, -NH₂, -NHR, -NR₂, **[[-NR₃⁺]]** -NHCOR, -I, -Br, -Cl, -F, -CN, -CO₂H, -CO₂R, -CHO, -COR, -CONH₂, -CONHR, NRCOR, -CONR₂, -COSR, -NO₂, -OSO₃H, -SO₃H, -SOR and -SO₂R; wherein one or more CH₂ groups in the alkyl chain if present, is optionally replaced by a moiety selected from the group consisting of: O, S and NH; and wherein one or more C or CH groups in the alkyl chain if present, is optionally replaced with NH;

R₁, R₂, and R₃ are independently selected from the group consisting of: methyl; a linear, branched, or cyclic, saturated, or unsaturated alkyl group containing one to ten carbons optionally substituted with one or more substituents selected from the group consisting of: -OH, -OR, =O, =S, =N-OH, -O₂CR, -SH, -SR, -SOCR, -NH₂, -NHR, -NR₂, **[[-NR₃⁺]]** -NHCOR, -I, -Br, -Cl, -F, -CN, -CO₂H, -CO₂R, -CHO, -COR, -CONH₂, -CONHR, NRCOR, -CONR₂, -COSH, -COSR, -CSOR, NO₂, -OSO₃H, -SO₃H, -SOR and -SO₂R; and benzyl, wherein a phenyl ring of the benzyl is optionally substituted with one or more substituents selected from the group consisting of: R, -OH, OR, -O₂CR, -SH, -SR, -SOCR, -NH₂, -NHR, -NHR₂, -NHCOR, -I, -Br, -Cl, -F, -CN, -CO₂H, -CO₂R, -CHO, -COR, -CONH₂, -CONHR, -CONR₂, -COSH, -COSR, -NO₂, SO₃H, -SOR and -SO₂R; providing none of R₁, R₂, and R₃ is an acyl or thioacyl residue forming an amide with N¹;

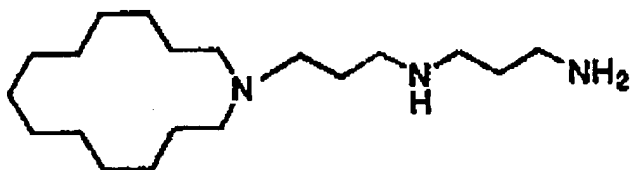
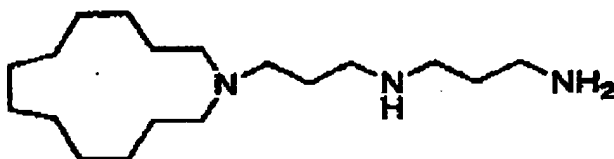
Y is a linear, branched, or cyclic, saturated, or unsaturated alkyl chain containing

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one to ten carbons optionally substituted with one or more substituents selected from the group consisting of: epoxide -OH, -OR, =O, =S, =N-OH, -O₂CR, -SH, -SR, -I, -Br, -Cl, -F, -CN, -CO₂R, -CHO, -COR, -CONH₂, -CONHR, NRCOR, -CONR₂, NO₂, -SOR and -SO₂R; wherein one or more CH₂ groups if present in the alkyl chain, is optionally replaced by O or S; and,

R is a linear, branched, or cyclic one to ten carbon saturated, or unsaturated alkyl group optionally substituted with one or more substituents selected from the group consisting of: epoxide, -OH, -OR', =O, =S, =N-OH, -O₂CR', -SH, -SR', -SOCR', -OSO₃H, -NH₂, -NHR', -NHR'₂, **[[-NR₃⁺]]** -NHCOR', NR'COR', -I, -Br, -Cl, -F, -CN, -CO₂H, -CO₂R', -CHO, -COR', -CONH₂, -CONHR', -CONR'₂, -COSH, -COSR', -NO₂, -SO₃H, -SOR' and -SO₂R'; wherein R' is a linear, branched, or cyclic one to ten carbon, saturated, or unsaturated alkyl group optionally substituted with -NH₂;

and providing that the pharmaceutical composition is not:



or



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2. (Original): The composition of claim 1, wherein Y is optionally substituted $(CH_2)_n$ in which n is 1-5.
3. (Original): The composition of claim 1, wherein X is a saturated linear or branched alkyl chain of 11-16 carbon atoms, optionally substituted with R.
4. (Original): The composition of claim 1, wherein X is an unsaturated linear or branched alkyl chain of 11-16 carbon atoms, optionally substituted with R.
5. (Previously Presented): The composition of claim 1, wherein X is a fully unsaturated -linear alkyl chain of 11-16 carbon atoms, optionally substituted with R.
6. (Currently Amended): The composition of claim 1, wherein the compound is of formula I in which one or both R_1 and R_2 is a linear or branched alkyl group optionally substituted by a substituent selected from the group consisting of: $-NH_2$, $-NHR$, $-NR_2$, $[[-NR_3^+]]$ and $-NHCOR$.
7. (Original): The composition of claim 1, wherein the compound is of formula I in which one or both R_1 and R_2 is selected from the group consisting of: hydrogen; methyl; and a linear or branched alkyl group, optionally substituted with a substituent selected from the group consisting of: $-OH$, $-OR$, and $=O$.
8. (Currently Amended): The composition of claim 1, wherein the compound is of formula I in which one or both R_1 and R_2 is a linear or branched C_2 to C_6 alkyl group, optionally substituted with a substituent selected from the group consisting of: $-NH_2$, $-NHR$, $-NR_2$, $[[-NR_3^+]]$ and $-NHCOR$.
9. (Original): The composition of claim 1, wherein the compound is of formula I in which one or both R_1 and R_2 is selected from the group consisting of: hydrogen; methyl;

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and a linear or branched C₂ to C₆ alkyl group, optionally substituted with a substituent selected from the group consisting of: -OH, -OR, and =O.

10. (Currently Amended): The composition of claim 1, wherein the compound is of formula II in which one or more of R₁, R₂, and R₃ is a linear or branched alkyl group, optionally substituted with a substituent selected from the group consisting of: -NH₂, -NHR, -NR₂, **[[-NR₃⁺]]** and -NHCOR.

11. (Original): The composition of claim 1, wherein the compound is of formula II in which one or more of R₁, R₂, and R₃ is selected from the group consisting of: methyl; and a linear or branched alkyl group optionally substituted with a substituent selected from the group consisting of: -OH, -OR, and =O.

12. (Currently Amended): The composition of claim 1, wherein the compound is of formula II in which one or more of R₁, R₂, and R₃ is a linear or branched C₂ to C₆ alkyl group, optionally substituted with a substituent selected from the group consisting of: -NH₂, -NHR, -NR₂, **[[-NR₃⁺]]** and -NHCOR.

13. (Original): The composition of claim 1, wherein the compound is of formula II in which one or more of R₁, R₂, and R₃ is selected from the group consisting of: methyl; and a linear or branched C₂ to C₆ alkyl group, optionally substituted with a substituent selected from the group consisting of: -OH, -OR, and =O.

14. (Currently Amended): The composition of claim 1, wherein the compound is of formula I in which:

- (a) Y is (CH₂)_n and n is 1, 2, or 3;
- (b) X is a saturated or unsaturated linear alkyl chain of 11-15 carbon atoms, optionally substituted with a C₁-C₆ linear or branched alkyl group; or, a fully unsaturated linear alkyl chain of 11-16 carbon atoms;
- (c) one of R₁ and R₂ is selected from the group consisting of: H, methyl, and a linear or branched C₂-C₆ alkyl group; and,

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(d) another of R_1 and R_2 is a linear or branched C_2 - C_6 alkyl group optionally substituted with a substituent selected from the group consisting of: NH_2 , $-NHR$, $[-NR_3^+]$ and $-NHCOR$, wherein R is a linear or branched C_1 - C_6 saturated or unsaturated alkyl group.

15. (Currently Amended): The composition of claim 1, wherein the compound is of formula II in which:

(a) Y is $(CH_2)_n$ and n is 1, 2, or 3;

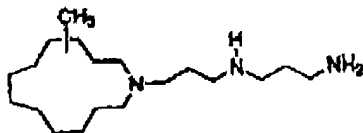
(b) X is a saturated or unsaturated linear alkyl chain of 11-15 carbon atoms, optionally substituted with R , with a C_1 - C_6 linear or branched alkyl group; or, a fully unsaturated linear alkyl chain of 11-16 carbon atoms;

(c) one or two of R_1 , R_2 $[[R]]$, and R_3 is methyl, or a linear or branched C_2 - C_6 alkyl group; and,

(d) another of R_1 , R_2 $[[R]]$, and R_3 is a linear or branched C_2 - C_6 alkyl group optionally substituted with a substituent selected from the group consisting of: NH_2 , $-NHR$, $[-NR_3^+]$ and $-NHCOR$, wherein R is a linear or branched C_1 - C_6 saturated or unsaturated alkyl group.

16. (Canceled)

17. (Original): The composition of claim 1, wherein a compound in the composition has the structure:



wherein the CH_3 group is joined at one of C12, C-13, C-14 and C-15.

18. (Canceled)

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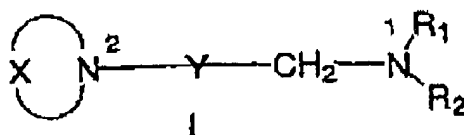
19. (Canceled)

20. (Previously Presented): The composition of claim 1, wherein a compound in the composition has the structure:



Claims 21 - 39. (Canceled)

40. (Currently Amended) A method for inhibiting cellular invasion or angiogenesis in a patient in need thereof, comprising administering to the patient, an amount of a compound or pharmaceutically acceptable salt thereof effective to inhibit cellular invasion or angiogenesis in a tissue of the patient, the compound being of formula I or II, wherein formula I is:



wherein:

X is a saturated, or unsaturated linear, or branched alkyl chain of between eleven and thirty carbons optionally substituted with one or more substituents selected from the group consisting of oxo, thiocarbonyl, oxime, -OH, -OR, -O₂CR, -SH, -SR, -SOCR, -NH₂, -NHR, -NR₂, $[[-NR_3^+]]$, -NHCOR, -I, -Br, -Cl, -F, -CN, -CO₂H, -CO₂R, -CHO, -COR, -CONH₂, -CONHR, NRCOR, -CONR₂, -COSR, -NO₂, -OSO₃H, -SO₃H, -SOR and

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-SO₂R; wherein one or more CH₂ groups if present in the alkyl chain, is optionally replaced by a moiety selected from the group consisting of: O, S, and NH; and wherein one or more C and CH groups if present in the alkyl chain, is optionally replaced with NH;

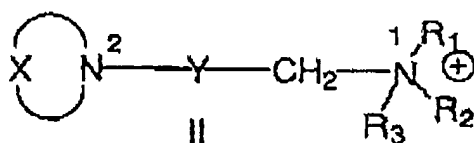
R₁ and R₂ are independently selected from the group consisting of: hydrogen; methyl; a linear, branched, or cyclic saturated, or unsaturated alkyl group containing one to ten carbons optionally substituted with one or more substituents selected from the group consisting of: -OH, -OR, =O, =S, =N-OH, -O₂CR, -SH, -SR, -SOCR, -NH₂, -NHR, -NR₂, **[[-NR₃⁺,]]** -NHCOR, -I, -Br, -Cl, -F, -CN, -CO₂H, -CO₂R, -CHO, -COR, -CONH₂, -CONHR, NRCOR, -CONR₂, -COSH, -COSR, -CSOR, NO₂, -OSO₃H, -SO₃H, -SOR and -SO₂R; and benzyl, wherein a phenyl ring of the benzyl is optionally substituted with one or more substituents selected from the group consisting of: R, -OH, -OR, -O₂CR, -SH, -SR, -SOCR, -NH₂, -NHR, -NHR₂, -NHCOR, -I, -Br, -Cl, -F, -CN, -CO₂H, -CO₂R, -CHO, -COR, -CONH₂, -CONHR, -CONR₂, -COSH, -COSR, -NO₂, -SO₃H and -SO₂R; providing neither of R₁ and R₂ is an acyl or thioacyl residue forming an amide with N¹;

Y is a linear, branched, or cyclic, saturated, or unsaturated alkyl chain containing one to ten carbons optionally substituted with one or more substituents selected from the group consisting of: epoxide, -OH, -OR, =O, =S, =N-OH, -O₂CR, -SH, SR, -I, -Br, -Cl, -F, -CN, -CO₂R, -CHO, -COR, -CONH₂, -CONHR, NRCOR, -CONR₂, NO₂, -SOR and -SO₂R; wherein one or more CH₂ groups if present in the alkyl chain, is optionally replaced by O or S;

R is a linear, branched, or cyclic one to ten carbon saturated, or unsaturated alkyl group optionally substituted with one or more substituents selected from the group consisting of: epoxide, -OH, -OR', =O, =S, =N-OH, -O₂CR', -SH, -SR', -SOCR', -OSO₃H, -NH₂, -NHR', -NHR'₂, **[[-NR₃⁺,]]** -NHCOR', NR'COR', -I, -Br, -Cl, -F, -CN, -CO₂H, -CO₂R', -CHO, -COR', CONH₂, -CONHR', -CONR'₂, -COSH, -COSR', -NO₂, -SO₃H, -SOR' and -SO₂R'; wherein R' is a linear, branched, or cyclic one to ten carbon, saturated, or unsaturated alkyl group optionally substituted with -NH₂;

and wherein formula II is:

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wherein:

X is a saturated, or unsaturated linear, or branched alkyl chain of between eleven and thirty carbons optionally substituted with one or more substituents selected from the group consisting of: oxo, thiocarbonyl, oxime, -OH, -OR, -O₂CR, -SH, -SR, -SOCR, -NH₂, -NHR, -NR₂, [[-NR₃⁺]], -NHCOR, -I, -Br, -Cl, -F, -CN, -CO₂H, -CO₂R, -CHO, -COR, -CONH₂, -CONHR, NRCOR, -CONR₂, -COSR, -NO₂, -OSO₃H, -SO₃H, -SOR and -SO₂R; wherein one or more CH₂ groups in the alkyl chain if present, is optionally replaced by a moiety selected from the group consisting of: O, S, and NH; and wherein one or more C or CH groups in the alkyl chain if present, is optionally replaced with NH;

R₁, R₂, and R₃ are independently selected from the group consisting of: methyl; a linear, branched, or cyclic, saturated, or unsaturated alkyl group containing one to ten carbons optionally substituted with one or more substituents selected from the group consisting of: -OH, -OR, =O, =S, =N-OH, -O₂CR, -SH, -SR, -SOCR, -NH₂, -NHR, -NR₂, [[-NR₃⁺]], -NHCOR, -I, -Br, -Cl, -F, -CN, -CO₂H, -CO₂R, -CHO, -COR, -CONH₂, -CONHR, NRCOR, -CONR₂, -COSH, -COSR, -CSOR, NO₂, -OSO₃H, -SO₃H, -SOR and -SO₂R; and benzyl, wherein a phenyl ring of the benzyl is optionally substituted with one or more substituents selected from the group consisting of: R, -OH, OR, -O₂CR, -SH, -SR, -SOCR, -NH₂, -NHR, -NHR₂, -NHCOR, -I, -Br, -Cl, -F, -CN, -CO₂H, -CO₂R, -CHO, -COR, -CONH₂, -CONHR, -CONR₂, -COSH, -COSR, -NO₂, SO₃H, -SOR and -SO₂R; providing none of R₁, R₂, and R₃ is an acyl or thioacyl residue forming an amide with N¹;

Y is a linear, branched, or cyclic, saturated, or unsaturated alkyl chain containing one to ten carbons optionally substituted with one or more substituents selected from the group consisting of: epoxide -OH, -OR, =O, =S, =N-OH, -O₂CR, -SH, -SR, -I, -Br, -Cl, -F, -CN, -CO₂R, -CHO, -COR, -CONH₂, -CONHR, NRCOR, -CONR₂, NO₂, -SOR and -SO₂R; wherein one or more CH₂ groups if present in the alkyl chain, is optionally replaced by O or S; and,

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R is a linear, branched, or cyclic one to ten carbon saturated, or unsaturated alkyl group optionally substituted with one or more substituents selected from the group consisting of: epoxide, -OH, -OR', =O, =S, =N-OH, -O₂CR', -SH, -SR', -SOCR', -OSO₃H, -NH₂, -NHR', -NHR'₂, **[[-NR₃⁺]]** -NHCOR', NR'COR', -I, -Br, -Cl, -F, -CN, -CO₂H, -CO₂R', -CHO, -COR', -CONH₂, -CONHR', -CONR'₂, -COSH, -COSR', -NO₂, -SO₃H, -SOR' and -SO₂R'; wherein R' is a linear, branched, or cyclic one to ten carbon, saturated, or unsaturated alkyl group optionally substituted with -NH₂.

41. (Currently Amended): The method of claim 40, wherein

(a) Y is (CH₂)_n and n is 1, 2, or 3;

(b) X is a saturated or unsaturated linear alkyl chain of 11-15 carbon atoms, optionally substituted with a C₁-C₆ linear or branched alkyl group; or, a fully unsaturated linear alkyl chain of 11-16 carbon atoms;

(c) one of R₁ and R₂ is selected from the group consisting of: H, methyl, and a linear or branched C₂-C₆ alkyl group; and,

(d) another of R₁ and R₂ is a linear or branched C₂-C₆ alkyl group optionally substituted with a substituent selected from the group consisting of: NH₂, -NHR, **[[-NR₃⁺]]** and -NHCOR, wherein R is a linear or branched C₁-C₆ saturated or unsaturated alkyl group.

42. (Currently Amended): The method of claim 40, wherein the compound is of formula II in which:

(a) Y is (CH₂)_n and n is 1, 2, or 3;

(b) X is a saturated or unsaturated linear alkyl chain of 11-15 carbon atoms, optionally substituted with R, with a C₁-C₆ linear or branched alkyl group; or, a fully unsaturated linear alkyl chain of 11-16 carbon atoms;

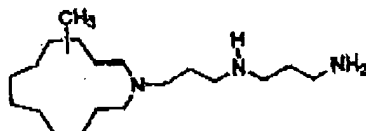
(c) one or two of R₁, **R₂ [[R]]**, and R₃ is methyl, or a linear or branched C₂-C₆ alkyl group; and,

(d) another of R₁, **R₂ [[R]]**, and R₃ is a linear or branched C₂-C₆ alkyl group optionally substituted with a substituent selected from the group consisting of: NH₂, -NHR, **[[-NR₃⁺]]** and -NHCOR, wherein R is a linear or branched C₁-C₆ saturated or

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unsaturated alkyl group.

43. (Original): The method of claim 40, wherein a compound in the composition has the structure:

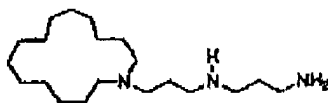


wherein the CH₃ group is joined at one of C12, C-13, C-14 and C-15.

44. (Previously Presented): The method of claim 40, wherein the compound is selected from the group consisting of: N-(3-azacyclotridec-1-ylpropyl)-1,3-propanediamine, N-(3-azacyclotetradec-1-ylpropyl)-1,3-propanediamine and N-[3-[(6Z)-azacyclopentadec-6-en-1-yl]propyl]-1,3-propanediamine.

45. (Canceled)

46. (Previously Presented): The method of claim 40, wherein the compound has the structure:



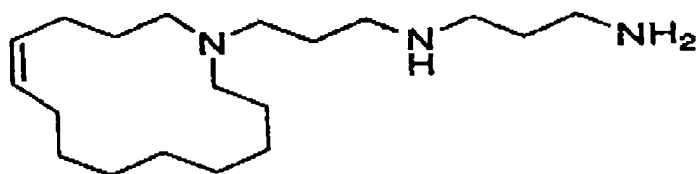
50. Claims 47 - 50. (Canceled)

51. (Previously Presented): The composition of claim 1, wherein X is a saturated or unsaturated linear alkyl chain of 12, 13 or 14 carbon atoms; Y is (CH₂)₂; one of R₁ and R₂ is -(CH₂)₃NH₂; and the other of R₁ and R₂ is H.

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52. (Previously Presented): The method of claim 40, wherein X is a saturated or unsaturated linear alkyl chain of 12, 13 or 14 carbon atoms; Y is $(\text{CH}_2)_2$; one of R_1 and R_2 is $-(\text{CH}_2)_3\text{NH}_2$; and the other of R_1 and R_2 is H.

53. (Previously Presented) The composition of claim 1, wherein a compound in the composition has the structure:



54. (Previously Presented) The method of claim 40, wherein a compound has the structure:

